624

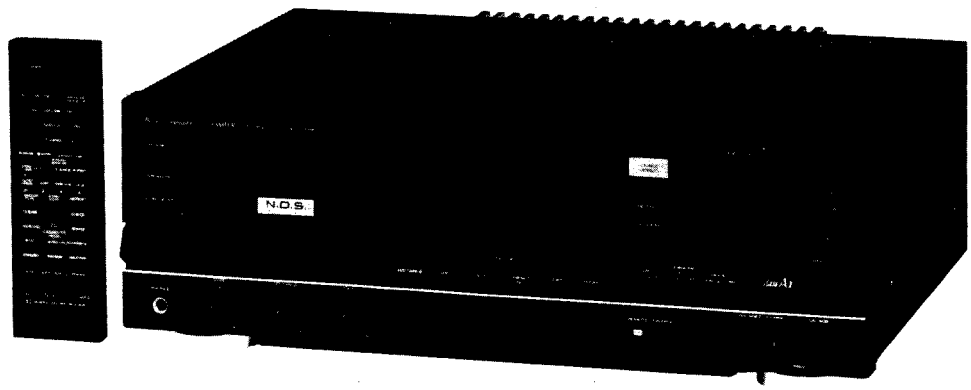
SERVICE MANUAL

FISHER

INTEGRATED STEREO AMPLIFIER

CA-905

(EUROPE)



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SPECIFICATIONS

Remote Control (RCA-905) ..... 37-button, wireless remote control

POWER AMPLIFIER SECTION

Minimum RMS sine wave power per channel within stated bandwidth at no more than stated distortion and with 8-ohm load ..... 80 W (DIN)
Power Bandwidth ..... 40 Hz – 20 kHz
Total Harmonic Distortion ..... 0.05 %
I.M. Distortion ..... 0.05 %
Speaker Damping ..... >40

PREAMPLIFIER SECTION

Frequency Response
- Phono (RIAA) ..... ±1 dB
- Aux (20 Hz – 20 kHz) ..... ±1 dB

Input Sensitivity and Impedance
- Phono ..... 2.5 mV/50 kΩ
- Tape Monitor 1, 2,3 ..... 150 mV/50 kΩ
- Tuner/CD/Aux ..... 150 mV/50 kΩ

Phono Max. Input Capability ..... 170 mV

Tone Controls
- Bass (100 Hz) ..... ±10 dB
- Mid Range (1 kHz) ..... ±10 dB
- Treble (10 kHz) ..... ±10 dB

Subsonic Filter (Below 20 Hz) ..... -12 dB/Oct.
Loudness Contour (100 Hz/10 kHz) ..... +8 dB/+4 dB

Hum and Noise (DIN)
- Phono ..... 75 dB
- Tape Monitor 1, 2,3 ..... 90 dB
- Tuner/CD/Aux ..... 90 dB
- Source Direct ..... 93 dB

GENERAL

Power Requirements ..... 220 V (50 Hz) 400 W
AC Outlets 3
Dimensions (WxHxD) 440x148x335mm
Weight (approx.) ..... 8.8 kg

– Specifications and design are subject to change without notice. –

REFERENCE No. WM-570333

624

POWER AMPLIFIER ADJUSTMENT

BEFORE ADJUSTMENT

Unplug the AC power cord and set the front panel controls as follows:

- Power switch to OFF position.
- Set the SPEAKERS switch to the OFF position.
- Turn the MASTER VOLUME Control to minimum.
- IDLING CURRENT ADJUSTMENT VR201/VR202 (on the Main P.C.Board) setting to mechanical center position.
- Connect the AC power cord and Power switch to the ON position.

IDLING CURRENT ADJUSTMENT

This adjustment is very sensitive to changes in ambient temperature. Allow set to operate for 2 minutes before attempting this alignment.

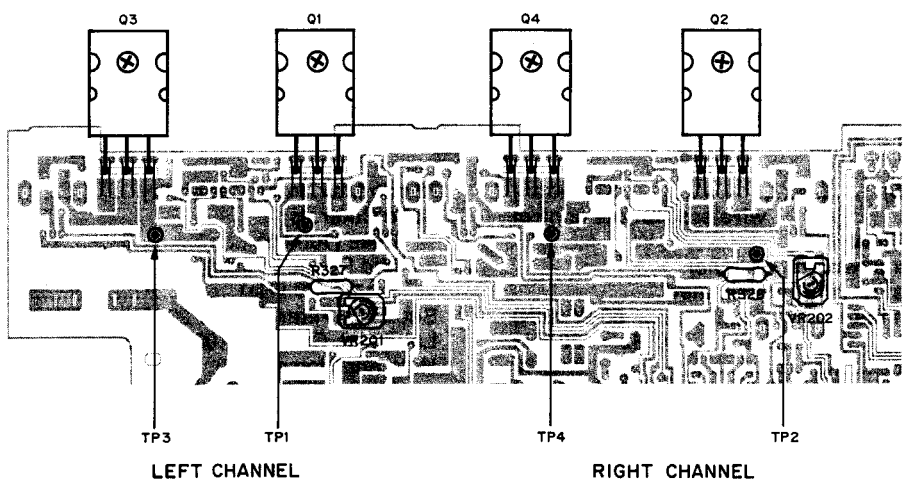
LEFT AMPLIFIER

1. Connect the DC Voltmeter between Testpoint TP1 and TP3 on the Main P.C.Board.
2. Adjust the VR201 for an indication of 10mV ~ 20mV on the DC Voltmeter.

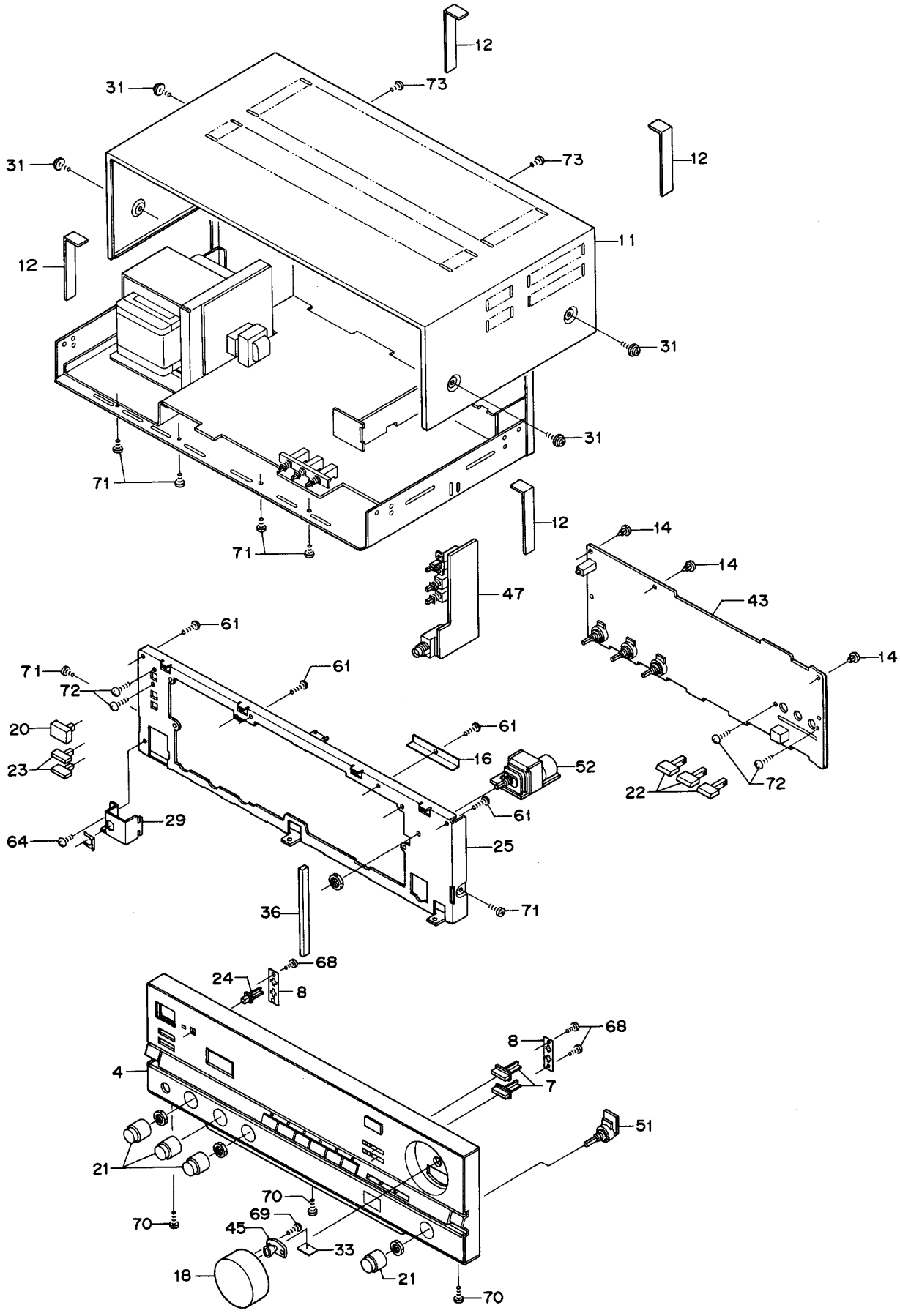
RIGHT AMPLIFIER

1. Connect the DC Voltmeter between Testpoint TP2 and TP4 on the Main P.C.Board.
2. Adjust the VR202 for an indication of 10mV ~ 20mV on the DC Voltmeter.

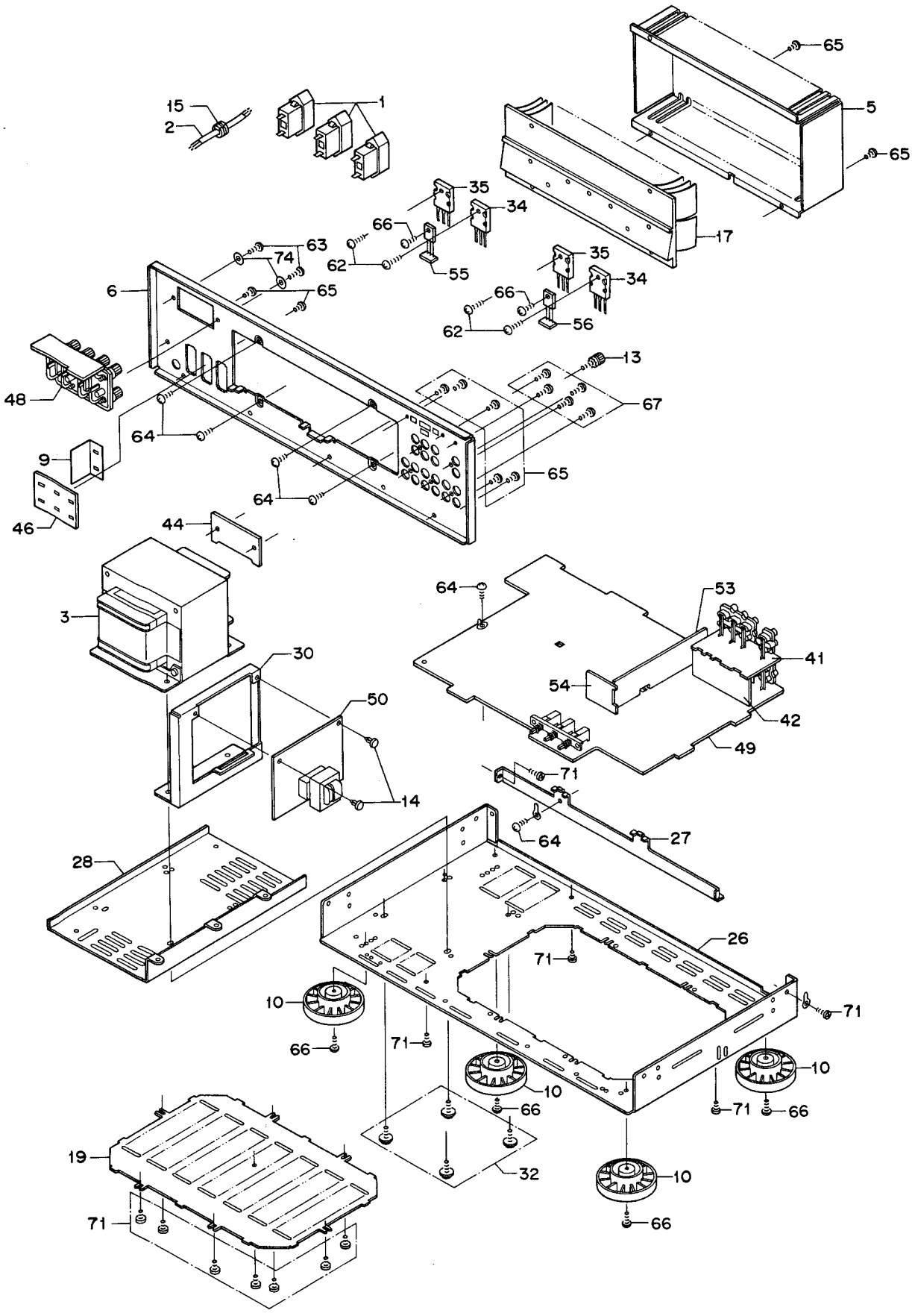
ADJUSTMENT POINTS



CABINET & CHASSIS EXPLODED VIEW (1)



CABINET & CHASSIS EXPLODED VIEW (2)



CABINET & CHASSIS PARTS LIST

Ref. No.	Part No.	Description	Q'ty
PACKAGE			
	620 000 0024	Bag Polyethylene	1
	620 201 4876	Inner Carton	1
	620 186 6476	Pad (Front)	1
	620 186 6483	Pad (Rear)	1
	620 193 5394	Pad	1
	620 059 6596	Patching Sheet	1
	620 062 0543	Serial No. Sheet	2
	620 148 8012	Sheet Polyethylene	1
ACCESSORIES			
	620 201 9932	Assy,Poly Cover	1
	620 201 9925	Instruction Manual	1
	620 057 8783	Bag Fan	1
	620 062 0543	Serial No. Sheet	1
	620 152 2624	Certificate Card	1
	620 201 9918	Remocon,RCA-905 (Remote Control)	1
CABINET			
	620 017 5784	Connector 1P Assy	1
	620 022 2587	EC Terminal 1P	2
	620 022 3454	Terminal Lug	1
	620 062 0543	Serial No. Sheet	1
	620 125 8424	Wire Band	24
C1	403 003 3601	CERAMIC 0.022U N 25V	1
1	⚠ 620 017 1212	AC Socket	3
2	⚠ 620 023 7550	Power Cord	1
3	⚠ 620 201 7044	Power Trans,SEV,200VA	1
4	620 201 4883	Assy,Cabinet	1
5	620 201 4913	Cover,Heat Sink	1
6	620 201 3954	Panel,Rear	1
7	620 201 1066	Button,Tact	2
8	620 201 1103	Mount-M,Button	2
9	620 203 0067	Insulator,AC Outlet	1
10	620 185 2752	Leg Assy	4
11	620 045 4711	Cover	1
12	620 048 4541	Metal Reinforce	4
13	620 051 2152	Screw Ground	1
14	620 191 2746	Rivet 3.5	5
or	620 052 1659	Rivet	5
15	620 053 2136	Bushing (Power Cord)	1
or	620 053 2129	Bushing (Power Cord)	1
16	620 189 5230	Shelter	1
17	620 192 3018	Heat Sink	1
18	620 186 6711	Knob Volume Assy	1
19	620 186 7060	Bottom Cover	1
20	620 186 4014	Knob (Power)	1
21	620 185 3186	Knob Volume (Tone,Balance)	4
22	620 185 3216	Knob Push (Tape)	3
23	620 185 3223	Knob Push (Speaker)	2
24	620 185 3230	Knob Tact (Stand by)	1
25	620 186 7237	Panel Front	1
26	620 186 7244	Chassis	1
27	620 186 7251	Metal Reinforce	1
28	620 186 7268	Metal Reinforce	1
29	620 185 3285	Bracket Mount H.P	1
30	620 191 5129	Bracket Mount PC	1
31	620 123 0284	SCR TPG BIN +M4.0X8	4
32	620 123 0833	SCR Bind TAP-B +M4X10	4
33	620 123 7658	Sheet	1
34	405 017 7705	TR 2SC3280-O [Q1]	1
or	405 033 3309	TR 2SC3280-R [Q1]	1
34	405 017 7705	TR 2SC3280-O [Q2]	1
or	405 033 3309	TR 2SC3280-R [Q2]	1
35	405 003 3902	TR 2SA1301-O [Q3]	1
or	405 031 2106	TR 2SA1301-R [Q3]	1
35	405 003 3902	TR 2SA1301-O [Q4]	1
or	405 031 2106	TR 2SA1301-R [Q4]	1
36	620 189 5223	Cushion	1
41	620 201 2438	Assy,PCB,Phono EQ.	1
42	620 201 2445	Assy,PCB,Jumper	1
43	620 201 2476	Assy,PCB,Micom	1
44	620 201 2483	Assy,PCB,R/C Terminal	1
45	620 201 2490	Assy,PCB,Volume Indicator	1
46	620 201 2513	Assy,PCB,AC Outlet	1
47	620 201 2520	Assy,PCB,SP/Power Switch	1
48	620 201 2544	Assy,PCB,Speaker Out	1
49	620 201 2551	Assy,PCB,Main	1
50	620 201 2568	Assy,PCB,Sub Trans	1
51	620 201 7129	Assy,PCB,Balance Volume	1
52	620 188 8744	Volume P.C.B. Assy	1
53	620 188 8768	Shield-A P.C.B. Assy	1
54	620 188 8775	Shield-B P.C.B. Assy	1
55	620 188 8799	Bias L P.C.B. Assy	1
56	620 188 8805	Bias R P.C.B. Assy	1
61	411 020 5201	SCR S-TPG BRZ 2.6X10	4
62	411 020 5904	SCR S-TPG BRZ 3X10	4
63	411 099 9506	SCR S-TPG BRZ 3X10	2
64	411 020 7700	SCR S-TPG BRZ 3X6	7
65	411 099 9704	SCR S-TPG BRZ 3X6	9
66	411 020 8004	SCR S-TPG BRZ 3X8	6
67	411 099 9803	SCR S-TPG BRZ 3X8	5
68	411 021 0304	SCR S-TPG BIN 2X4	3
69	411 021 3107	SCR S-TPG BIN 2.6X8	1
70	411 021 3206	SCR S-TPG BIN 2.6X8	3
71	411 021 5705	SCR S-TPG BIN 3X6	18
72	411 003 8908	SCR PAN+SW 3X6	4
73	411 070 0607	SCR TPG BRZ 3X8	2
74	411 087 0102	WASHER In TW 3	2

NOTES:

1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

P.C.BOARD PARTS LIST

Ref. No.	Part No.	Description	Q'ty
ASSY,PCB,PHONO EQ.			
41	620 201 2438	Assy,PCB,Phono EQ.	1
	620 201 6146	Jack,RCA PIN,2P,WH/RE	1
	620 201 6160	Jack,RCA PIN,6P,WH/RE	1
W101	620 017 5784	Connector 1P Assy	1
IC101	409 057 4403	IC UPC4570C	1
C101	403 071 6207	CERAMIC 220P K 50V	1
C102	403 071 6207	CERAMIC 220P K 50V	1
C103	403 047 1502	ELECT 4.7U M 25V	1
C104	403 047 1502	ELECT 4.7U M 25V	1
C105	403 071 6207	CERAMIC 220P K 50V	1
C106	403 071 6207	CERAMIC 220P K 50V	1
C107	403 038 7209	ELECT 220U M 6.3V	1
C108	403 038 7209	ELECT 220U M 6.3V	1
C109	403 062 7305	POLYESTER 0.056U K 50V	1
C110	403 062 7305	POLYESTER 0.056U K 50V	1
C111	403 058 3106	POLYESTER 0.015U J 50V	1
C112	403 058 3106	POLYESTER 0.015U J 50V	1
C113	403 074 2701	CERAMIC 0.047U Z 50V	1
C115	403 071 2001	CERAMIC 180P K 50V	1
C116	403 071 2001	CERAMIC 180P K 50V	1
R101	401 024 7004	CARBON 1K JA 1/6W	1
R102	401 024 7004	CARBON 1K JA 1/6W	1
R103	401 024 7004	CARBON 1K JA 1/6W	1
R104	401 024 7004	CARBON 1K JA 1/6W	1
R105	401 024 7004	CARBON 1K JA 1/6W	1
R106	401 024 7004	CARBON 1K JA 1/6W	1
R107	401 024 7004	CARBON 1K JA 1/6W	1
R108	401 024 7004	CARBON 1K JA 1/6W	1
R109	401 025 8703	CARBON 220K JA 1/6W	1
R110	401 025 8703	CARBON 220K JA 1/6W	1
R111	401 025 8703	CARBON 220K JA 1/6W	1
R112	401 025 8703	CARBON 220K JA 1/6W	1
R113	401 025 8703	CARBON 220K JA 1/6W	1
R114	401 025 8703	CARBON 220K JA 1/6W	1
R115	401 024 7707	CARBON 100K JA 1/6W	1
R116	401 024 7707	CARBON 100K JA 1/6W	1
R117	401 024 7707	CARBON 100K JA 1/6W	1
R118	401 024 7707	CARBON 100K JA 1/6W	1
R119	401 024 6700	CARBON 100 JA 1/6W	1
R120	401 024 6700	CARBON 100 JA 1/6W	1
R121	401 027 3003	CARBON 56K JA 1/6W	1
R122	401 027 3003	CARBON 56K JA 1/6W	1
R123	401 026 9907	CARBON 4.7K JA 1/6W	1
R124	401 026 9907	CARBON 4.7K JA 1/6W	1
ASSY,PCB,JUMPER			
42	620 201 2445	Assy,PCB,Jumper	1
C131	403 047 1502	ELECT 4.7U M 25V	1
C132	403 047 1502	ELECT 4.7U M 25V	1
C133	403 047 4206	ELECT 47U M 25V	1
C134	403 047 4206	ELECT 47U M 25V	1
R125	401 024 7004	CARBON 1K JA 1/6W	1
R126	401 012 5708	CARBON 1K JA 1/4W	1
R127	401 024 7707	CARBON 100K JA 1/6W	1
R128	401 024 7707	CARBON 100K JA 1/6W	1
R129	401 026 3905	CARBON 330 JA 1/6W	1
R130	401 026 3905	CARBON 330 JA 1/6W	1
ASSY,PCB,MICOM			
43	620 201 2476	Assy,PCB,Micom	1
	620 030 8137	Lamp	1
	411 021 3107	SCR S-TPG BIN 2.6X8	4
	620 201 1073	Spacer,LED	1
	620 201 1080	Spacer,LED	1
	620 052 0171	Spacer	1
	620 186 7275	Plate Earth	1
	620 125 8424	Wire Band	1
	620 055 4879	Jumper	1
	620 189 0839	Jumper	1
	620 189 0815	Jumper	1
	620 189 0846	Jumper	1
CX401	620 026 9070	CSA 4.19M Resonator	1
RB401	620 004 5513	Resistor 7X10K	1
S401	620 016 7796	Tact Switch (PHONO)	1
S402	620 016 7796	Tact Switch (TUNER)	1
S403	620 016 7796	Tact Switch (CD)	1
S404	620 016 7796	Tact Switch (AUX)	1
S405	620 016 7796	Tact Switch (TAPE 1)	1

Ref. No.	Part No.	Description	Q'ty
S406	620 016 7796	Tact Switch (TAPE 2, DAT)	1
S407	620 016 7796	Tact Switch (MUTING)	1
S408	620 016 7796	Tact Switch (LOUDNESS)	1
S409	620 016 7796	Tact Switch (SOURCE DIRECT)	1
S410	620 016 7796	Tact Switch (POWER STANDBY)	1
VR401	620 189 0211	VR 2X150KW (BASS)	1
VR402	620 189 0211	VR 2X150KW (MID RANGE)	1
VR403	620 189 0211	VR 2X150KW (TREBLE)	1
IC401	410 062 9000	IC TMP47C670N-1265	1
IC402	409 114 4803	IC LB1641	1
Q401	405 018 0101	TR 2SC3331-T	1
or	405 018 0002	TR 2SC3331-S	1
Q402	405 018 0101	TR 2SC3331-T	1
or	405 018 0002	TR 2SC3331-S	1
Q403	405 018 0101	TR 2SC3331-T	1
or	405 018 0002	TR 2SC3331-S	1
Q404	405 018 0101	TR 2SC3331-T	1
or	405 018 0002	TR 2SC3331-S	1
Q405	405 019 3804	TR 2SC536-G-NP	1
or	405 019 2708	TR 2SC536-F-NP	1
Q406	405 019 3804	TR 2SC536-G-NP	1
or	405 019 2708	TR 2SC536-F-NP	1
Q407	405 004 5004	TR 2SA608-G-NP	1
or	405 004 4502	TR 2SA608-F-NP	1
Q408	405 004 5004	TR 2SA608-G-NP	1
or	405 004 4502	TR 2SA608-F-NP	1
Q409	405 019 3804	TR 2SC536-G-NP	1
or	405 019 2708	TR 2SC536-F-NP	1
Q410	405 019 3804	TR 2SC536-G-NP	1
or	405 019 2708	TR 2SC536-F-NP	1
Q411	405 019 3804	TR 2SC536-G-NP	1
or	405 019 2708	TR 2SC536-F-NP	1
Q412	405 004 5004	TR 2SA608-G-NP	1
or	405 004 4502	TR 2SA608-F-NP	1
Q413	405 004 5004	TR 2SA608-G-NP	1
or	405 004 4502	TR 2SA608-F-NP	1
Q414	405 021 0808	TR 2SD1012-H	1
Q415	405 019 3804	TR 2SC536-G-NP	1
or	405 019 2708	TR 2SC536-F-NP	1
Q416	405 021 0808	TR 2SD1012-H	1
or	405 021 0501	TR 2SD1012-G	1
Q417	405 019 3804	TR 2SC536-G-NP	1
or	405 019 2708	TR 2SC536-F-NP	1
D401	407 069 1205	DIODE DS441	1
D402	407 008 0405	DIODE GMB01-BT	1
D403	407 008 0405	DIODE GMB01-BT	1
D404	407 008 0405	DIODE GMB01-BT	1
D405	407 008 0405	DIODE GMB01-BT	1
D406	407 008 0405	DIODE GMB01-BT	1
D407	407 050 3300	ZENER DIODE GZA4.3X	1
D408	407 065 5009	LED SLP-190B-51	1
D409	407 096 1803	LED SLP-490B-51	1
D410	407 096 1803	LED SLP-490B-51	1
D411	407 096 1704	LED SLP-290B-51	1
D412	407 096 1704	LED SLP-290B-51	1
D413	407 096 1704	LED SLP-290B-51	1
D414	407 096 1704	LED SLP-290B-51	1
D415	407 065 5009	LED SLP-190B-51	1
D416	407 065 5009	LED SLP-190B-51	1
D417	407 102 2800	SENSOR SBX1492-52	1
D418	407 005 4703	DIODE DS446-BT	1
C401	403 044 8207	ELECT 10U M 25V	1
C402	403 044 8207	ELECT 10U M 25V	1
C403	403 059 5802	POLYESTER 0.022U J 50V	1
C404	403 059 5802	POLYESTER 0.022U J 50V	1
C405	403 063 8103	POLYESTER 0.082U K 50V	1
C406	403 063 8103	POLYESTER 0.082U K 50V	1
C407	403 061 8006	POLYESTER 4700P J 50V	1
C408	403 061 8006	POLYESTER 4700P J 50V	1
C409	403 057 7402	POLYESTER 0.012U J 50V	1
C410	403 057 7402	POLYESTER 0.012U J 50V	1
C411	403 044 8207	ELECT 10U M 25V	1
C412	403 044 8207	ELECT 10U M 25V	1
C413	403 047 4305	ELECT 47U M 25V	1
C414	403 044 8207	ELECT 10U M 25V	1
C415	403 069 8404	CERAMIC 0.01U Z 50V	1
C416	404 039 4402	ELECT 100U M 10V	1
or	404 032 5802	ELECT 100U M 10V	1
C417	404 039 4303	ELECT 2200U M 10V	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description				Q'ty
or	404 032 2207	ELECT	2200U	M	10V	1
C418	403 022 5907	CERAMIC	33P	J	50V	1
C419	403 022 5907	CERAMIC	33P	J	50V	1
C420	403 049 1609	ELECT	1U	M	50V	1
C421	403 049 1609	ELECT	1U	M	50V	1
C422	403 038 7209	ELECT	220U	M	6.3V	1
C423	403 045 0606	ELECT	100U	M	25V	1
C424	403 069 8404	CERAMIC	0.01U	Z	50V	1
C425	403 067 5603	MT-COMPO	0.1U	J	50V	1
C426	403 038 2303	ELECT	100U	M	6.3V	1
C427	403 069 8404	CERAMIC	0.01U	Z	50V	1
C428	403 069 8404	CERAMIC	0.01U	Z	50V	1
C429	403 069 8404	CERAMIC	0.01U	Z	50V	1
C430	404 028 9302	CERAMIC	0.1U	Z	50V	1
C431	403 026 8201	CERAMIC	470P	K	50V	1
R401	401 025 2305	CARBON	150K	JA	1/6W	1
R402	401 025 2305	CARBON	150K	JA	1/6W	1
R403	401 026 7408	CARBON	39K	JA	1/6W	1
R404	401 026 7408	CARBON	39K	JA	1/6W	1
R405	401 027 8305	CARBON	820	JA	1/6W	1
R406	401 027 8305	CARBON	820	JA	1/6W	1
R407	401 025 1605	CARBON	1.5K	JA	1/6W	1
R408	401 025 1605	CARBON	1.5K	JA	1/6W	1
R409	401 026 6609	CARBON	390	JA	1/6W	1
R410	401 026 6609	CARBON	390	JA	1/6W	1
R411	401 026 6609	CARBON	390	JA	1/6W	1
R412	401 026 6609	CARBON	390	JA	1/6W	1
R413	401 027 2600	CARBON	5.6K	JA	1/6W	1
R414	401 027 2600	CARBON	5.6K	JA	1/6W	1
R415	401 027 2600	CARBON	5.6K	JA	1/6W	1
R416	401 027 2600	CARBON	5.6K	JA	1/6W	1
R417	401 013 5301	CARBON	1.2K	JA	1/4W	1
R418	401 024 9305	CARBON	1.2K	JA	1/6W	1
R419	401 021 3009	CARBON	5.6K	JA	1/4W	1
R420	401 021 3009	CARBON	5.6K	JA	1/4W	1
R421	401 024 7707	CARBON	100K	JA	1/6W	1
R422	401 024 7707	CARBON	100K	JA	1/6W	1
R423	401 027 2600	CARBON	5.6K	JA	1/6W	1
R424	401 027 3003	CARBON	56K	JA	1/6W	1
R425	401 021 1906	CARBON	560	JA	1/4W	1
R426	402 015 5108	FUSIBLE RES	560	J-	1/4W	1
R427	401 020 0801	CARBON	470	JA	1/4W	1
R428	401 027 0309	CARBON	47K	JA	1/6W	1
R429	401 024 7400	CARBON	10K	JA	1/6W	1
R430	401 024 7400	CARBON	10K	JA	1/6W	1
R431	401 027 0309	CARBON	47K	JA	1/6W	1
R432	401 027 5908	CARBON	68K	JA	1/6W	1
R433	401 027 5908	CARBON	68K	JA	1/6W	1
R434	401 012 7009	CARBON	10K	JA	1/4W	1
R435	401 024 7400	CARBON	10K	JA	1/6W	1
R436	401 026 4605	CARBON	33K	JA	1/6W	1
R437	401 012 7009	CARBON	10K	JA	1/4W	1
R438	401 024 7707	CARBON	100K	JA	1/6W	1
R439	401 027 0507	CARBON	470K	JA	1/6W	1
R440	401 024 7400	CARBON	10K	JA	1/6W	1
R441	401 027 0309	CARBON	47K	JA	1/6W	1
R442	401 024 7004	CARBON	1K	JA	1/6W	1
R443	401 027 0309	CARBON	47K	JA	1/6W	1
R444	401 018 3807	CARBON	3.3K	JA	1/4W	1
R445	401 016 3809	CARBON	2.2K	JA	1/4W	1
R446	401 013 9507	CARBON	1.3K	JA	1/4W	1
R447	401 024 7400	CARBON	10K	JA	1/6W	1
R448	401 022 0809	CARBON	68	JA	1/4W	1
R449	401 019 1000	CARBON	390	JA	1/4W	1
R450	401 019 1000	CARBON	390	JA	1/4W	1
R451	401 013 6407	CARBON	12K	JA	1/4W	1
R452	401 013 3208	CARBON	12	JA	1/4W	1
R453	401 013 3208	CARBON	12	JA	1/4W	1
R454	401 012 3407	CARBON	10	JA	1/4W	1
R455	401 012 8105	CARBON	100K	JA	1/4W	1
R456	401 012 8105	CARBON	100K	JA	1/4W	1
R457	401 012 7009	CARBON	10K	JA	1/4W	1
R458	401 022 1905	CARBON	680	JA	1/4W	1
R459	401 016 3809	CARBON	2.2K	JA	1/4W	1
R460	401 024 7400	CARBON	10K	JA	1/6W	1
R461	401 024 7707	CARBON	100K	JA	1/6W	1
R462	401 012 8105	CARBON	100K	JA	1/4W	1
R463	401 012 5708	CARBON	1K	JA	1/4W	1
R464	401 012 5708	CARBON	1K	JA	1/4W	1
R465	401 024 7004	CARBON	1K	JA	1/6W	1
R466	401 012 5708	CARBON	1K	JA	1/4W	1
R467	401 024 7004	CARBON	1K	JA	1/6W	1
R468	401 024 7004	CARBON	1K	JA	1/6W	1
R469	401 024 7004	CARBON	1K	JA	1/6W	1
R470	401 026 9600	CARBON	470	JA	1/6W	1
R471	401 012 7009	CARBON	10K	JA	1/4W	1
R472	401 024 7004	CARBON	1K	JA	1/6W	1
R473	401 020 2904	CARBON	47K	JA	1/4W	1
R474	401 024 7707	CARBON	100K	JA	1/6W	1
R475	401 013 5301	CARBON	1.2K	JA	1/4W	1
R476	401 012 7009	CARBON	10K	JA	1/4W	1
R477	401 012 7009	CARBON	10K	JA	1/4W	1
R478	401 012 7009	CARBON	10K	JA	1/4W	1
R479	401 024 7400	CARBON	10K	JA	1/6W	1
ASSY,PCB,R/C TERMINAL						
44	620 201 2483	Assy,PCB,R/C Terminal				1
	620 021 1970	Plug 2P				1
	620 021 5923	Plug 3P				1
	620 021 5930	Plug 4P				2
	620 185 3292	Bracket Connect PC				1
	620 055 4299	Jumper				1
ASSY,PCB,VOLUME INDICATOR						
45	620 201 2490	Assy,PCB,Volume Indicator				1
	620 185 2820	Reflector				1
D301	407 062 7204	LED SEL2213C				1
ASSY,PCB,AC OUTLET						
46	620 201 2513	Assy,PCB,AC Outlet				1
ASSY,PCB,SP/POWER SWITCH						
47	620 201 2520	Assy,PCB,SP/Power Switch				1
	620 185 1946	Jack 3P				1
	620 031 4763	Wire Wrap Terminal				2
	620 053 6899	Cover Safety				1
PC511	620 189 0761	Wire 5 Parallel				1
PC512	620 024 2998	Wire 6 Parallel				1
S501	620 188 8393	Push 1Key (SPEAKER A)				1
S502	620 188 8393	Push 1Key (SPEAKER B)				1
S503	⚠ 620 015 2341	Switch Push Power (POWER SW)				1
C501	⚠ 620 006 6716	Capacitor 1000P 400V				1
R501	402 040 1601	OXIDE-MT	560	JB	2W	1
R502	402 040 1601	OXIDE-MT	560	JB	2W	1
R503	401 017 0807	CARBON	270	JA	1/4W	1
R504	401 017 0807	CARBON	270	JA	1/4W	1
R505	401 017 0807	CARBON	270	JA	1/4W	1
R506	401 017 0807	CARBON	270	JA	1/4W	1
ASSY,PCB,SPEAKER OUT						
48	620 201 2544	Assy,PCB,Speaker Out				1
	620 196 5353	Terminal				1
C525	403 069 1207	CERAMIC	1000P	K	50V	1
C526	403 069 1207	CERAMIC	1000P	K	50V	1
C527	403 074 6303	CERAMIC	560P	K	50V	1
C528	403 074 6303	CERAMIC	560P	K	50V	1
C529	403 074 9205	CERAMIC	680P	K	50V	1
C530	403 074 9205	CERAMIC	680P	K	50V	1
ASSY,PCB,MAIN						
49	620 201 2551	Assy,PCB,Main				1
	620 189 0259	Push 3Key				1
	620 017 0406	Relay				1
	620 017 0413	Relay				1
	620 017 2738	Fuse Clip				10
	⚠ 423 005 0507	FUSE 250V T1A				2
	⚠ 423 006 4702	FUSE 250V T2.5A				1
	⚠ 423 007 4404	FUSE 250V T5A				2
	411 020 7700	SCR S-TPG BRZ 3X6				4
	620 201 6153	Jack,RCA PIN,4P,WH/RE				3
	620 201 7198	Label,Fuse T1AX2				1
	620 201 7204	Label,Fuse,T5AX2				1
	620 031 4763	Wire Wrap Terminal				15
	620 053 6899	Cover Safety				1
	620 053 9241	Plate Heat Sink				4
	620 055 1045	Label Fuse				1
	620 186 7275	Plate Earth				1
CN203	620 020 3753	Socket Jumper 7P				1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
CN204	620 020 5825	Socket Jumper 8P	1
CN205	620 020 5801	Socket Jumper 5P	1
CN206	620 018 1884	Socket Jumper 10P	1
L201	620 027 1240	AF Coil	1
L202	620 027 1240	AF Coil	1
TH201	407 109 6702	THERMISTOR 300D-5	1
TH202	407 109 6702	THERMISTOR 300D-5	1
VR201	620 005 6212	Potentiometer 301	1
VR202	620 005 6212	Potentiometer 301	1
IC201	409 109 5105	IC LC7821	1
IC202	409 018 4503	IC LA6458DS	1
IC203	409 018 4503	IC LA6458DS	1
IC204	409 018 4503	IC LA6458DS	1
IC205	409 161 3101	IC TC9214P	1
IC206	409 161 3101	IC TC9214P	1
IC207	409 057 4403	IC UPC4570C	1
IC209	409 079 9509	IC LA2500	1
IC210	409 079 9509	IC LA2500	1
Q203	405 021 0808	TR 2SD1012-H	1
Q204	405 021 0808	TR 2SD1012-H	1
Q205	405 016 9007	TR 2SC3066-G	1
or	405 016 8901	TR 2SC3066-F	1
Q206	405 016 9007	TR 2SC3066-G	1
or	405 016 8901	TR 2SC3066-F	1
Q207	405 002 9202	TR 2SA1209-T	1
or	405 002 9103	TR 2SA1209-S	1
Q208	405 002 9202	TR 2SA1209-T	1
or	405 002 9103	TR 2SA1209-S	1
Q209	405 016 4002	TR 2SC2911-T	1
or	405 016 3906	TR 2SC2911-S	1
Q210	405 016 4002	TR 2SC2911-T	1
or	405 016 3906	TR 2SC2911-S	1
Q213	405 019 3804	TR 2SC536-G-NP	1
or	405 019 2708	TR 2SC536-F-NP	1
Q214	405 019 3804	TR 2SC536-G-NP	1
or	405 019 2708	TR 2SC536-F-NP	1
Q215	405 004 5004	TR 2SA608-G-NP	1
or	405 004 4502	TR 2SA608-F-NP	1
Q216	405 004 5004	TR 2SA608-G-NP	1
or	405 004 4502	TR 2SA608-F-NP	1
Q217	405 017 2601	TR 2SC3117-S	1
or	405 017 2502	TR 2SC3117-R	1
Q218	405 017 2601	TR 2SC3117-S	1
or	405 017 2502	TR 2SC3117-R	1
Q219	405 003 1601	TR 2SA1249-S	1
or	405 003 1502	TR 2SA1249-R	1
Q220	405 003 1601	TR 2SA1249-S	1
or	405 003 1502	TR 2SA1249-R	1
Q221	405 004 5004	TR 2SA608-G-NP	1
or	405 004 4502	TR 2SA608-F-NP	1
Q222	405 019 3804	TR 2SC536-G-NP	1
or	405 019 2708	TR 2SC536-F-NP	1
Q223	405 019 3804	TR 2SC536-G-NP	1
or	405 019 2708	TR 2SC536-F-NP	1
Q225	405 004 5004	TR 2SA608-G-NP	1
or	405 004 4502	TR 2SA608-F-NP	1
Q226	405 019 3804	TR 2SC536-G-NP	1
or	405 019 2708	TR 2SC536-F-NP	1
Q227	405 023 8505	TR 2SD438-F-MP	1
or	405 023 8307	TR 2SD438-E-MP	1
Q228	405 004 5004	TR 2SA608-G-NP	1
or	405 004 4502	TR 2SA608-F-NP	1
Q229	405 007 5308	TR 2SB560-F-MP	1
or	405 007 5100	TR 2SB560-E-MP	1
Q231	405 019 3804	TR 2SC536-G-NP	1
or	405 019 2708	TR 2SC536-F-NP	1
Q233	405 022 8209	TR 2SD1682-T	1
or	405 022 8001	TR 2SD1682-S	1
Q234	405 025 0200	TR 2SD734-G	1
or	405 024 9907	TR 2SD734-F	1
Q235	405 019 3804	TR 2SC536-G-NP	1
or	405 019 2708	TR 2SC536-F-NP	1
D201	407 008 0405	DIODE GMB01-BT	1
D202	407 008 0405	DIODE GMB01-BT	1
D203	407 008 0405	DIODE GMB01-BT	1
D204	407 008 0405	DIODE GMB01-BT	1
D205	407 008 0405	DIODE GMB01-BT	1
D206	407 008 0405	DIODE GMB01-BT	1
D207	407 008 0405	DIODE GMB01-BT	1

Ref. No.	Part No.	Description	Q'ty
D208	407 008 0405	DIODE GMB01-BT	1
D209	407 008 0405	DIODE GMB01-BT	1
D210	407 008 0405	DIODE GMB01-BT	1
D211	407 008 0405	DIODE GMB01-BT	1
D212	407 008 0405	DIODE GMB01-BT	1
D213	407 008 0405	DIODE GMB01-BT	1
D214	407 008 0405	DIODE GMB01-BT	1
D215	407 005 3805	DIODE DS442-BT	1
D216	407 005 3805	DIODE DS442-BT	1
D217	407 005 3805	DIODE DS442-BT	1
D218	407 005 3805	DIODE DS442-BT	1
D223	407 005 2105	DIODE DS135D-KB3	1
D224	407 005 2105	DIODE DS135D-KB3	1
D225	407 005 2105	DIODE DS135D-KB3	1
D226	407 005 2105	DIODE DS135D-KB3	1
D227	407 120 4909	DIODE DS5403	1
or	407 088 3105	DIODE DSC30TC-KD2	1
D228	407 120 4909	DIODE DS5403	1
or	407 088 3105	DIODE DSC30TC-KD2	1
D229	407 120 4909	DIODE DS5403	1
or	407 088 3105	DIODE DSC30TC-KD2	1
D230	407 120 4909	DIODE DS5403	1
or	407 088 3105	DIODE DSC30TC-KD2	1
D231	407 008 0405	DIODE GMB01-BT	1
D232	407 008 0405	DIODE GMB01-BT	1
D233	407 049 7807	ZENER DIODE GZA18Y-BT	1
D236	407 049 7807	ZENER DIODE GZA18Y-BT	1
D237	407 050 6301	ZENER DIODE GZA6.2Z-BT	1
D240	407 004 9105	DIODE DSF10C-BT	1
D245	407 050 6301	ZENER DIODE GZA6.2Z-BT	1
D247	407 004 9105	DIODE DSF10C-BT	1
D249	407 049 7807	ZENER DIODE GZA18Y-BT	1
D253	407 008 0405	DIODE GMB01-BT	1
D254	407 008 0405	DIODE GMB01-BT	1
C201	403 047 1502	ELECT 4.7U M 25V	1
C202	403 047 1502	ELECT 4.7U M 25V	1
C203	403 071 6207	CERAMIC 220P K 50V	1
C204	403 071 6207	CERAMIC 220P K 50V	1
C205	403 047 1502	ELECT 4.7U M 25V	1
C206	403 047 1502	ELECT 4.7U M 25V	1
C207	403 047 1502	ELECT 4.7U M 25V	1
C208	403 047 1502	ELECT 4.7U M 25V	1
C209	403 071 6207	CERAMIC 220P K 50V	1
C210	403 071 6207	CERAMIC 220P K 50V	1
C211	403 047 1502	ELECT 4.7U M 25V	1
C212	403 047 1502	ELECT 4.7U M 25V	1
C213	403 047 4206	ELECT 47U M 25V	1
C214	403 047 4206	ELECT 47U M 25V	1
C215	403 049 1609	ELECT 1U M 50V	1
C217	403 071 6207	CERAMIC 220P K 50V	1
C218	403 071 6207	CERAMIC 220P K 50V	1
C219	403 047 4206	ELECT 47U M 25V	1
C220	403 047 4206	ELECT 47U M 25V	1
C221	403 067 6709	MT-COMPO 0.22U J 50V	1
C222	403 067 6709	MT-COMPO 0.22U J 50V	1
C223	403 067 6709	MT-COMPO 0.22U J 50V	1
C224	403 067 6709	MT-COMPO 0.22U J 50V	1
C225	403 047 1502	ELECT 4.7U M 25V	1
C226	403 047 1502	ELECT 4.7U M 25V	1
C227	403 068 9402	CERAMIC 100P K 50V	1
C228	403 068 9402	CERAMIC 100P K 50V	1
C229	403 068 9402	CERAMIC 100P K 50V	1
C230	403 068 9402	CERAMIC 100P K 50V	1
C231	403 047 1502	ELECT 4.7U M 25V	1
C232	403 047 1502	ELECT 4.7U M 25V	1
C233	403 073 7004	CERAMIC 470P K 50V	1
C234	403 073 7004	CERAMIC 470P K 50V	1
C235	403 067 5900	MT-COMPO 0.12U J 50V	1
C236	403 067 5900	MT-COMPO 0.12U J 50V	1
C237	403 071 6207	CERAMIC 220P K 50V	1
C238	403 071 6207	CERAMIC 220P K 50V	1
C239	403 045 0606	ELECT 100U M 25V	1
C240	403 045 0606	ELECT 100U M 25V	1
C245	403 047 1502	ELECT 4.7U M 25V	1
C246	403 047 1502	ELECT 4.7U M 25V	1
C247	403 071 6207	CERAMIC 220P K 50V	1
C248	403 071 6207	CERAMIC 220P K 50V	1
C249	403 040 4807	ELECT 220U M 10V	1
C250	403 040 4807	ELECT 220U M 10V	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
C251	403 070 7809	CERAMIC 150P K 50V	1
C252	403 070 7809	CERAMIC 150P K 50V	1
C253	403 044 8207	ELECT 10U M 25V	1
C254	403 044 8207	ELECT 10U M 25V	1
C255	403 044 0201	ELECT 47U M 16V	1
C256	403 044 0201	ELECT 47U M 16V	1
C257	403 035 2207	CERAMIC 15P K 500V	1
C258	403 035 2207	CERAMIC 15P K 500V	1
C259	403 035 2207	CERAMIC 15P K 500V	1
C260	403 035 2207	CERAMIC 15P K 500V	1
C261	403 035 8506	CERAMIC 3P C 500V	1
C262	403 035 8506	CERAMIC 3P C 500V	1
C263	403 061 8006	POLYESTER 4700P J 50V	1
C264	403 061 8006	POLYESTER 4700P J 50V	1
C265	403 057 7402	POLYESTER 0.012U J 50V	1
C266	403 057 7402	POLYESTER 0.012U J 50V	1
C267	403 057 7402	POLYESTER 0.012U J 50V	1
C268	403 057 7402	POLYESTER 0.012U J 50V	1
C269	403 034 9900	CERAMIC 100P K 500V	1
C270	403 034 9900	CERAMIC 100P K 500V	1
C271	403 034 9900	CERAMIC 100P K 500V	1
C272	403 034 9900	CERAMIC 100P K 500V	1
C273	403 036 6600	CERAMIC 8P D 500V	1
C274	403 036 6600	CERAMIC 8P D 500V	1
C275	403 062 0900	POLYESTER 0.047U K 50V	1
C276	403 062 0900	POLYESTER 0.047U K 50V	1
C277	403 054 9706	ELECT 47U M 100V	1
C278	403 054 9706	ELECT 47U M 100V	1
C279	403 054 9706	ELECT 47U M 100V	1
C280	403 054 9706	ELECT 47U M 100V	1
C281	403 068 9402	CERAMIC 100P K 50V	1
C282	403 068 9402	CERAMIC 100P K 50V	1
C283	404 012 7000	CERAMIC 0.01U P 500V	1
C284	404 012 7000	CERAMIC 0.01U P 500V	1
C289	403 041 3304	ELECT 47U M 10V	1
C290	403 042 0302	ELECT 10U M 16V	1
C292	404 012 7000	CERAMIC 0.01U P 500V	1
C293	404 012 7000	CERAMIC 0.01U P 500V	1
C294	404 012 7000	CERAMIC 0.01U P 500V	1
C295	404 012 7000	CERAMIC 0.01U P 500V	1
C296	403 052 9609	ELECT 1000U M 35V	1
C297	403 052 9609	ELECT 1000U M 35V	1
C298	404 012 7000	CERAMIC 0.01U P 500V	1
C299	404 012 7000	CERAMIC 0.01U P 500V	1
C300	404 012 7000	CERAMIC 0.01U P 500V	1
C301	404 012 7000	CERAMIC 0.01U P 500V	1
C302	404 043 0001	ELECT 6800U M 63V	1
or	404 040 4101	ELECT 6800U M 63V	1
C303	404 043 0001	ELECT 6800U M 63V	1
or	404 040 4101	ELECT 6800U M 63V	1
C304	403 044 8207	ELECT 10U M 25V	1
C305	403 044 8207	ELECT 10U M 25V	1
C306	403 044 8207	ELECT 10U M 25V	1
C307	403 044 8207	ELECT 10U M 25V	1
C308	403 042 0302	ELECT 10U M 16V	1
C309	403 039 7802	ELECT 100U M 10V	1
C317	403 042 0302	ELECT 10U M 16V	1
C318	403 039 7802	ELECT 100U M 10V	1
C319	⚠ 620 006 6679	Capacitor 0.01MF400V	1
C321	403 068 9402	CERAMIC 100P K 50V	1
C322	403 068 9402	CERAMIC 100P K 50V	1
C323	403 034 8101	CERAMIC 1P C 500V	1
C324	403 034 8101	CERAMIC 1P C 500V	1
C325	403 047 1502	ELECT 4.7U M 25V	1
C326	403 044 8207	ELECT 10U M 25V	1
C329	403 009 3100	CERAMIC 100P J 50V	1
C330	403 009 3100	CERAMIC 100P J 50V	1
C331	403 006 4209	CERAMIC 1P C 50V	1
C332	403 006 4209	CERAMIC 1P C 50V	1
C345	403 068 9402	CERAMIC 100P K 50V	1
C346	403 068 9402	CERAMIC 100P K 50V	1
C347	403 068 9402	CERAMIC 100P K 50V	1
C348	403 068 9402	CERAMIC 100P K 50V	1
C349	403 068 9402	CERAMIC 100P K 50V	1
C350	403 068 9402	CERAMIC 100P K 50V	1
C351	403 068 9402	CERAMIC 100P K 50V	1
C352	403 068 9402	CERAMIC 100P K 50V	1
R201	401 024 7004	CARBON 1K JA 1/6W	1
R202	401 024 7004	CARBON 1K JA 1/6W	1

Ref. No.	Part No.	Description	Q'ty
R203	401 024 7004	CARBON 1K JA 1/6W	1
R204	401 024 7004	CARBON 1K JA 1/6W	1
R205	401 024 7004	CARBON 1K JA 1/6W	1
R206	401 024 7004	CARBON 1K JA 1/6W	1
R207	401 024 7004	CARBON 1K JA 1/6W	1
R208	401 024 7004	CARBON 1K JA 1/6W	1
R209	401 024 7004	CARBON 1K JA 1/6W	1
R210	401 024 7004	CARBON 1K JA 1/6W	1
R211	401 024 7004	CARBON 1K JA 1/6W	1
R212	401 024 7004	CARBON 1K JA 1/6W	1
R213	401 025 0004	CARBON 120K JA 1/6W	1
R214	401 025 0004	CARBON 120K JA 1/6W	1
R215	401 025 8703	CARBON 220K JA 1/6W	1
R216	401 025 8703	CARBON 220K JA 1/6W	1
R217	401 027 9005	CARBON 82K JA 1/6W	1
R218	401 027 9005	CARBON 82K JA 1/6W	1
R219	401 025 8703	CARBON 220K JA 1/6W	1
R220	401 025 8703	CARBON 220K JA 1/6W	1
R221	401 024 7707	CARBON 100K JA 1/6W	1
R222	401 024 7707	CARBON 100K JA 1/6W	1
R223	401 024 7707	CARBON 100K JA 1/6W	1
R224	401 024 7707	CARBON 100K JA 1/6W	1
R225	401 024 7707	CARBON 100K JA 1/6W	1
R226	401 024 7707	CARBON 100K JA 1/6W	1
R227	401 024 7707	CARBON 100K JA 1/6W	1
R228	401 024 7707	CARBON 100K JA 1/6W	1
R229	401 027 0507	CARBON 470K JA 1/6W	1
R230	401 027 0507	CARBON 470K JA 1/6W	1
R231	401 025 8703	CARBON 220K JA 1/6W	1
R232	401 025 8703	CARBON 220K JA 1/6W	1
R233	401 012 5708	CARBON 1K JA 1/4W	1
R234	401 012 5708	CARBON 1K JA 1/4W	1
R235	401 018 2800	CARBON 330 JA 1/4W	1
R236	401 018 2800	CARBON 330 JA 1/4W	1
R237	401 024 7400	CARBON 10K JA 1/6W	1
R241	401 026 1307	CARBON 27K JA 1/6W	1
R242	401 026 1307	CARBON 27K JA 1/6W	1
R243	401 025 0004	CARBON 120K JA 1/6W	1
R244	401 025 0004	CARBON 120K JA 1/6W	1
R245	401 024 7707	CARBON 100K JA 1/6W	1
R246	401 024 7707	CARBON 100K JA 1/6W	1
R247	401 026 4308	CARBON 3.3K JA 1/6W	1
R248	401 026 4308	CARBON 3.3K JA 1/6W	1
R249	401 026 1000	CARBON 2.7K JA 1/6W	1
R250	401 026 1000	CARBON 2.7K JA 1/6W	1
R251	401 024 7400	CARBON 10K JA 1/6W	1
R252	401 024 7400	CARBON 10K JA 1/6W	1
R253	401 027 2600	CARBON 5.6K JA 1/6W	1
R254	401 027 2600	CARBON 5.6K JA 1/6W	1
R267	401 012 5708	CARBON 1K JA 1/4W	1
R268	401 012 5708	CARBON 1K JA 1/4W	1
R269	401 026 1000	CARBON 2.7K JA 1/6W	1
R270	401 026 1000	CARBON 2.7K JA 1/6W	1
R271	401 016 1508	CARBON 22 JA 1/4W	1
R272	401 016 1508	CARBON 22 JA 1/4W	1
R273	401 024 7400	CARBON 10K JA 1/6W	1
R274	401 024 7400	CARBON 10K JA 1/6W	1
R275	401 024 7400	CARBON 10K JA 1/6W	1
R277	401 012 5708	CARBON 1K JA 1/4W	1
R278	401 012 5708	CARBON 1K JA 1/4W	1
R279	401 016 2604	CARBON 220 JA 1/4W	1
R280	401 016 2604	CARBON 220 JA 1/4W	1
R281	401 025 8208	CARBON 22K JA 1/5W	1
R282	401 025 8208	CARBON 22K JA 1/5W	1
R283	401 024 7004	CARBON 1K JA 1/5W	1
R284	401 024 7004	CARBON 1K JA 1/5W	1
R285	401 027 0309	CARBON 47K JA 1/5W	1
R286	401 027 0309	CARBON 47K JA 1/5W	1
R287	401 025 9502	CARBON 240 JA 1/5W	1
R288	401 025 9502	CARBON 240 JA 1/5W	1
R289	401 024 9701	CARBON 12K JA 1/5W	1
R290	401 024 9701	CARBON 12K JA 1/5W	1
R293	401 024 9701	CARBON 12K JA 1/5W	1
R294	401 024 9701	CARBON 12K JA 1/5W	1
R295	401 025 7805	CARBON 2.2K JA 1/5W	1
R296	401 025 7805	CARBON 2.2K JA 1/5W	1
R299	401 025 7805	CARBON 2.2K JA 1/5W	1
R300	401 025 7805	CARBON 2.2K JA 1/5W	1
R301	402 035 9902	FUSIBLE RES 82 J- 1/4W	1

P.C.BOARD PARTS LIST (Continued)

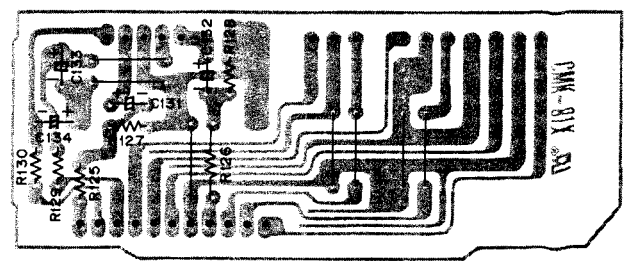
Ref. No.	Part No.	Description	Q'ty
R302	402 035 9902	FUSIBLE RES 82 J- 1/4W	1
R303	402 036 0106	FUSIBLE RES 47 J- 1/4W	1
R304	402 036 0106	FUSIBLE RES 47 J- 1/4W	1
R305	402 035 9902	FUSIBLE RES 82 J- 1/4W	1
R306	402 035 9902	FUSIBLE RES 82 J- 1/4W	1
R307	401 018 4903	CARBON 33K JA 1/4W	1
R308	401 026 4605	CARBON 33K JA 1/6W	1
R309	402 036 0106	FUSIBLE RES 47 J- 1/4W	1
R310	402 036 0106	FUSIBLE RES 47 J- 1/4W	1
R311	401 026 3905	CARBON 330 JA 1/6W	1
R312	401 026 3905	CARBON 330 JA 1/6W	1
R321	401 023 7005	CARBON 910 JA 1/4W	1
R322	401 023 7005	CARBON 910 JA 1/4W	1
R323	401 023 7005	CARBON 910 JA 1/4W	1
R324	401 023 7005	CARBON 910 JA 1/4W	1
R325	401 148 1506	OXIDE-MT 18K JA 1/2W	1
R326	401 148 1506	OXIDE-MT 18K JA 1/2W	1
R327	401 061 2604	OXIDE-MT 330 JB 1W	1
R328	401 061 2604	OXIDE-MT 330 JB 1W	1
R329	402 036 0205	FUSIBLE RES 2.2 J- 1/4W	1
R330	402 036 0205	FUSIBLE RES 2.2 J- 1/4W	1
R331	402 036 0205	FUSIBLE RES 2.2 J- 1/4W	1
R332	402 036 0205	FUSIBLE RES 2.2 J- 1/4W	1
R333	402 040 7306	WIRE WOUND 0.3 KA 5W	1
R334	402 040 7306	WIRE WOUND 0.3 KA 5W	1
R335	402 040 7306	WIRE WOUND 0.3 KA 5W	1
R336	402 040 7306	WIRE WOUND 0.3 KA 5W	1
R337	401 021 4105	CARBON 56K JA 1/4W	1
R338	401 021 4105	CARBON 56K JA 1/4W	1
R339	401 022 4104	CARBON 68K JA 1/4W	1
R340	401 022 4104	CARBON 68K JA 1/4W	1
R341	401 019 9600	CARBON 47 JA 1/4W	1
R342	401 019 9600	CARBON 47 JA 1/4W	1
R343	401 064 6203	OXIDE-MT 10 JB 2W	1
R344	401 064 6203	OXIDE-MT 10 JB 2W	1
R345	402 036 0106	FUSIBLE RES 47 J- 1/4W	1
R346	402 036 0106	FUSIBLE RES 47 J- 1/4W	1
R347	402 036 0106	FUSIBLE RES 47 J- 1/4W	1
R348	402 036 0106	FUSIBLE RES 47 J- 1/4W	1
R349	401 024 6700	CARBON 100 JA 1/6W	1
R350	401 024 6700	CARBON 100 JA 1/6W	1
R363	401 021 4105	CARBON 56K JA 1/4W	1
R364	401 021 4105	CARBON 56K JA 1/4W	1
R365	401 025 1902	CARBON 15K JA 1/6W	1
R366	401 024 7400	CARBON 10K JA 1/6W	1
R367	401 024 7400	CARBON 10K JA 1/6W	1
R370	401 025 8208	CARBON 22K JA 1/6W	1
R371	401 054 8002	OXIDE-MT 100 JB 1/2W	1
R372	401 024 6700	CARBON 100 JA 1/6W	1
R373	401 024 7400	CARBON 10K JA 1/6W	1
R374	401 055 0005	OXIDE-MT 120 JB 1/2W	1
R375	401 014 4105	CARBON 1.5K JA 1/4W	1
R377	401 063 1100	OXIDE-MT 680 JB 1W	1
R378	401 018 3807	CARBON 3.3K JA 1/4W	1
R381	401 019 9600	CARBON 47 JA 1/4W	1
R382	401 061 1805	OXIDE-MT 33 JB 1W	1
R383	401 020 2003	CARBON 4.7K JA 1/4W	1
R384	401 026 3905	CARBON 330 JA 1/6W	1
R385	401 020 2003	CARBON 4.7K JA 1/4W	1
R388	401 024 7400	CARBON 10K JA 1/6W	1
R389	401 027 5502	CARBON 6.8K JA 1/6W	1
R390	401 062 2405	OXIDE-MT 4.7K JB 1W	1
R394	401 024 7004	CARBON 1K JA 1/6W	1
R395	401 055 0005	OXIDE-MT 120 JB 1/2W	1
R601	401 023 3700	CARBON 82K JA 1/4W	1
R602	401 023 3700	CARBON 82K JA 1/4W	1
R603	401 024 7004	CARBON 1K JA 1/6W	1
R604	401 024 7004	CARBON 1K JA 1/6W	1
ASSY,PCB,SUB TRANS			
50	620 201 2568	Assy,PCB,Sub Trans	1
	620 022 2587	EC Terminal 1P	2
⚠	620 191 2692	Power Trans	1
	411 020 7700	SCR S-TPG BRZ 3X6	1
	620 031 4763	Wire Wrap Terminal	5
	620 053 7247	Plate Heat Sink	1
Q601	405 022 8209	TR 2SD1682-T	1
or	405 022 8001	TR 2SD1682-S	1
D601	407 088 6502	DIODE MPG06D-PKG3	1

Ref. No.	Part No.	Description	Q'ty
D602	407 088 6502	DIODE MPG06D-PKG3	1
D603	407 088 6502	DIODE MPG06D-PKG3	1
D604	407 088 6502	DIODE MPG06D-PKG3	1
D605	407 049 6305	ZENER DIODE GZA12Y-BT	1
C601	403 069 8404	CERAMIC 0.01U Z 50V	1
C602	403 069 8404	CERAMIC 0.01U Z 50V	1
C603	403 069 8404	CERAMIC 0.01U Z 50V	1
C604	403 069 8404	CERAMIC 0.01U Z 50V	1
C605	403 054 2608	ELECT 470U M 35V	1
C606	403 042 0302	ELECT 10U M 16V	1
C607	403 042 0302	ELECT 10U M 16V	1
R601	401 012 5708	CARBON 1K JA 1/4W	1
ASSY,PCB,BALANCE VOLUME			
51	620 201 7129	Assy,PCB,Balance Volume	1
PC301	620 024 2059	Wire 3 Parallel	1
VR301	620 189 0204	VR 150KW	1
VOLUME P.C.B. ASSY			
52	620 188 8744	Volume P.C.B. Assy	1
	620 055 3117	Jumper	1
VR302	620 189 0198	Motor VR 50K15AMX2	1
SHIELD-A P.C.B. ASSY			
53	620 188 8768	Shield-A P.C.B. Assy	1
	620 188 8331	Shield-A P.C.B.	1
SHIELD-B P.C.B. ASSY			
54	620 188 8775	Shield-B P.C.B. Assy	1
	620 188 8348	Shield-B P.C.B.	1
BIAS L P.C.B. ASSY			
55	620 188 8799	Bias L P.C.B. Assy	1
	620 188 8362	Bias L P.C.B.	1
Q211	405 022 8209	TR 2SD1682-T	1
or	405 022 8001	TR 2SD1682-S	1
BIAS R P.C.B. ASSY			
56	620 188 8805	Bias R P.C.B. Assy	1
	620 188 8379	Bias R P.C.B.	1
Q212	405 022 8209	TR 2SD1682-T	1
or	405 022 8001	TR 2SD1682-S	1

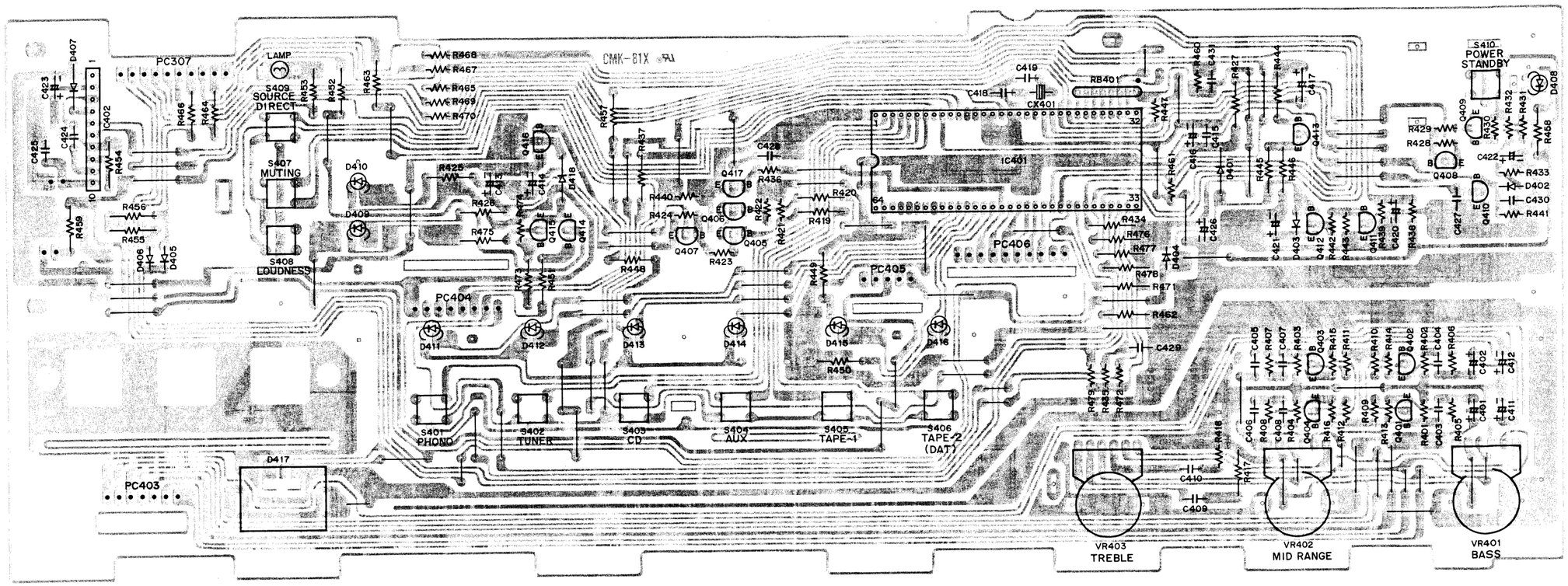
NOTES:

1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

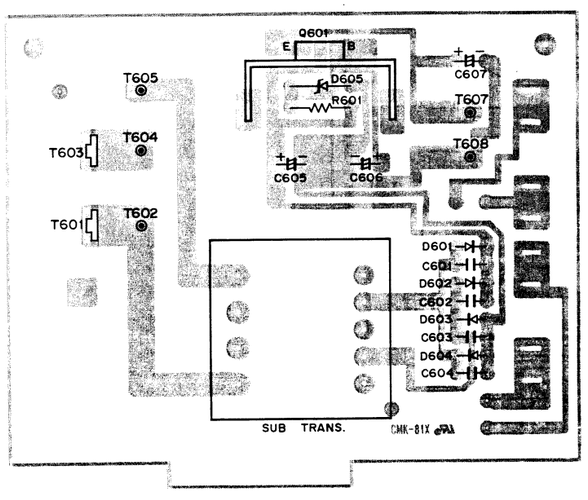
JUMPER PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



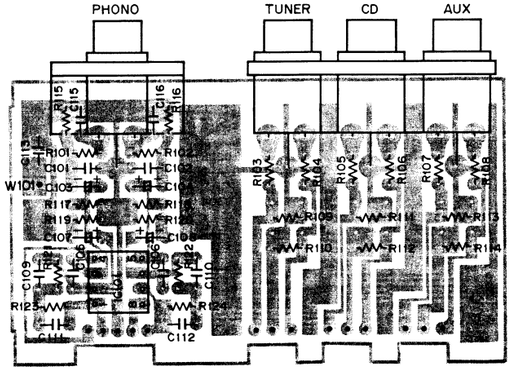
MICOM PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



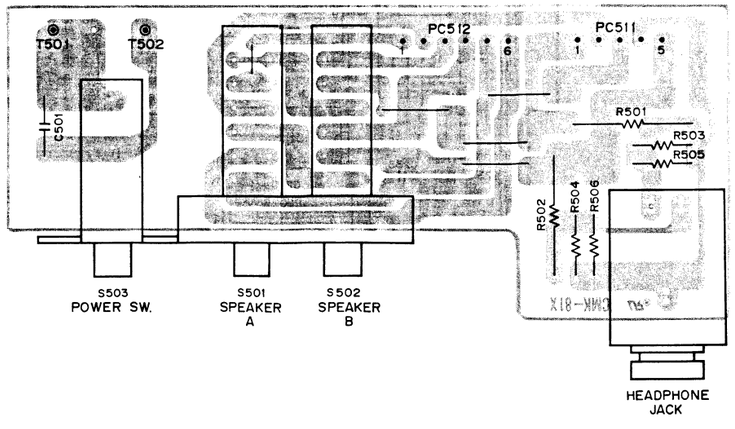
SUB TRANS PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



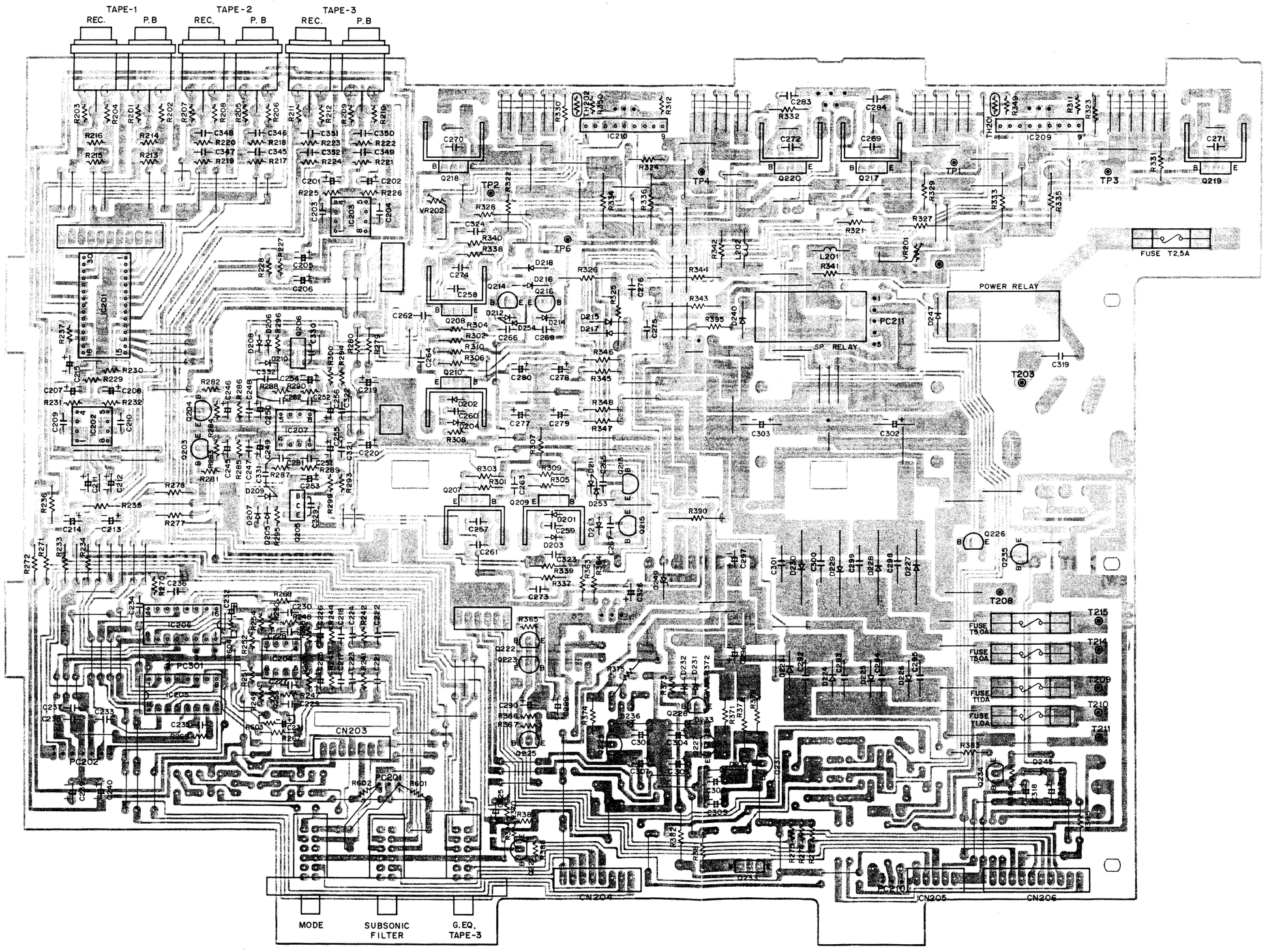
PHONO EQ PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



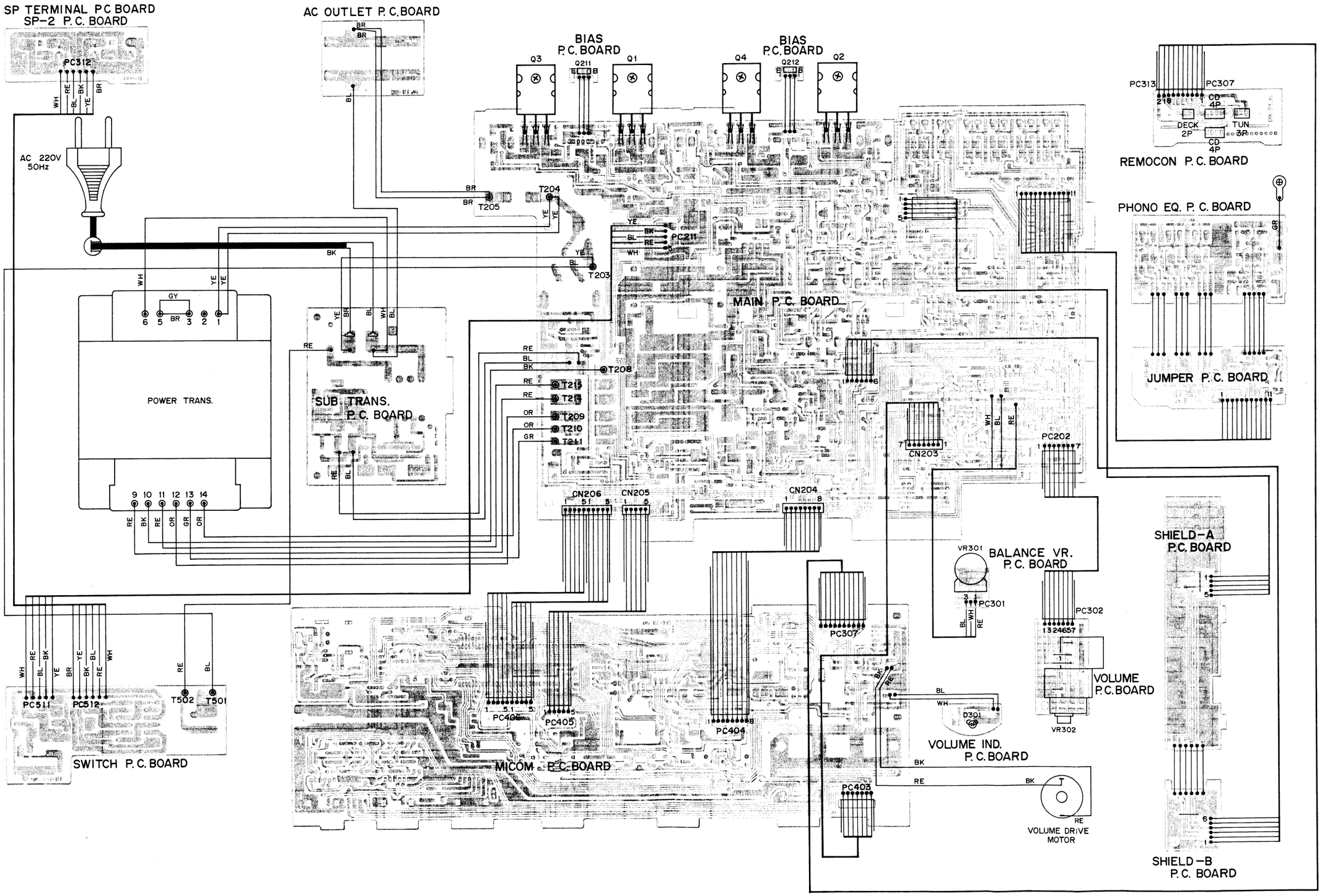
SP/POWER SWITCH PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



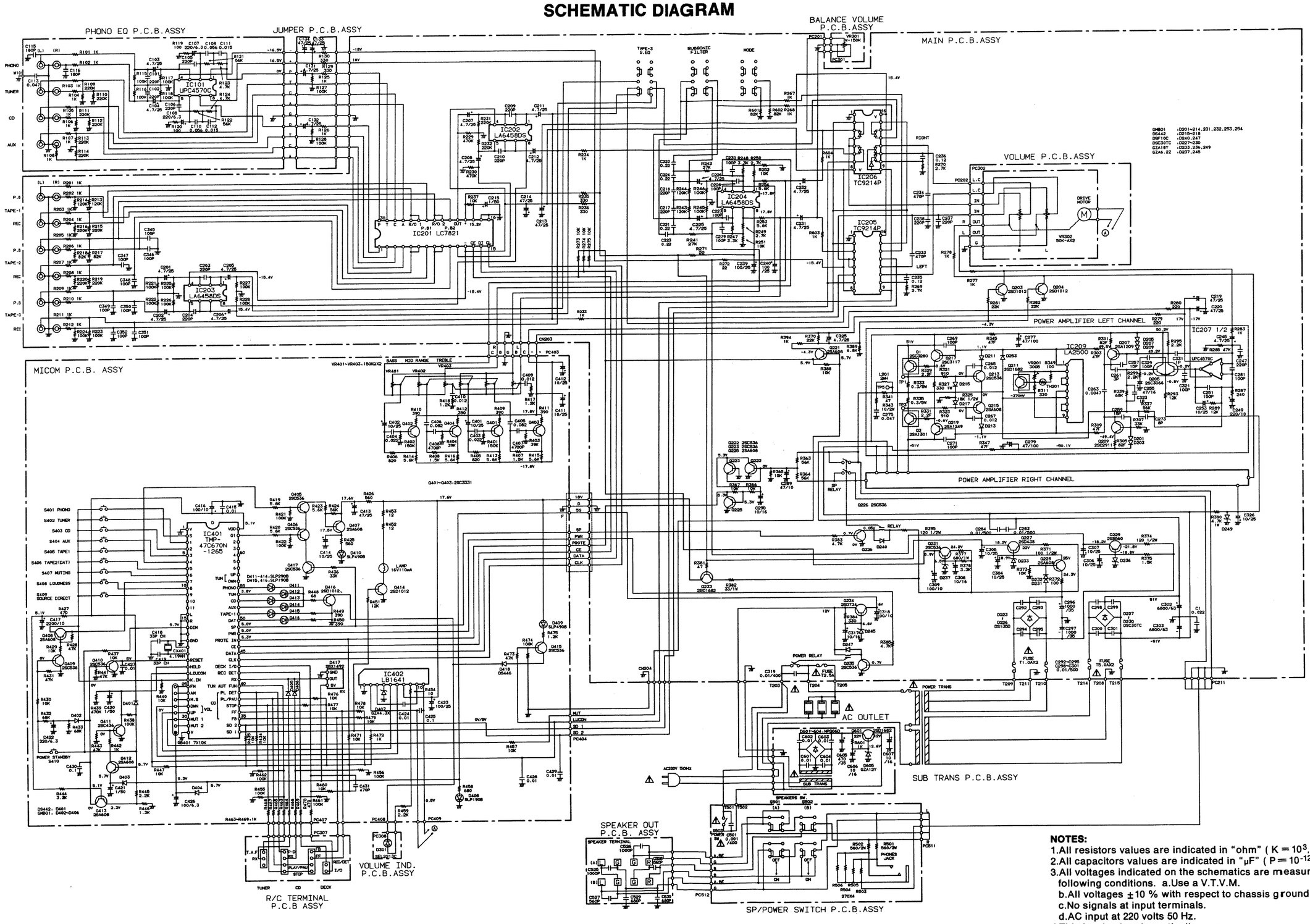
MAIN PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



POINT TO POINT WIRING DIAGRAM



SCHEMATIC DIAGRAM



GMB01 :D201-214,231,232,253,254
DS442 :D215-218
DSF10C :D240,247
DSC30TC :D227-230
GZA18Y :D233,236,249
GZA6.2Z :D237,245

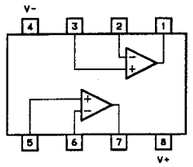
D401~D403:2SC3331

NOTES:

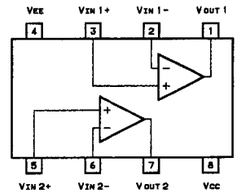
1. All resistors values are indicated in "ohm" (K = 10^3, M = 10^6).
2. All capacitors values are indicated in "μF" (P = 10^{-12}).
3. All voltages indicated on the schematics are measured under the following conditions. a.Use a V.T.V.M.
   b.All voltages ±10 % with respect to chassis ground.
   c.No signals at input terminals.
   d.AC input at 220 volts 50 Hz.
4. This is a basic schematic diagram.

IC BLOCK DIAGRAM

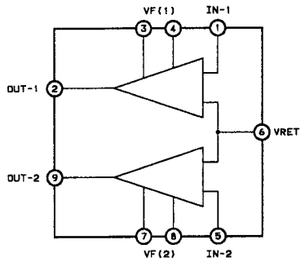
UPC4570C BLOCK DIAGRAM



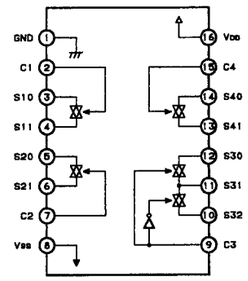
LA6458DS BLOCK DIAGRAM



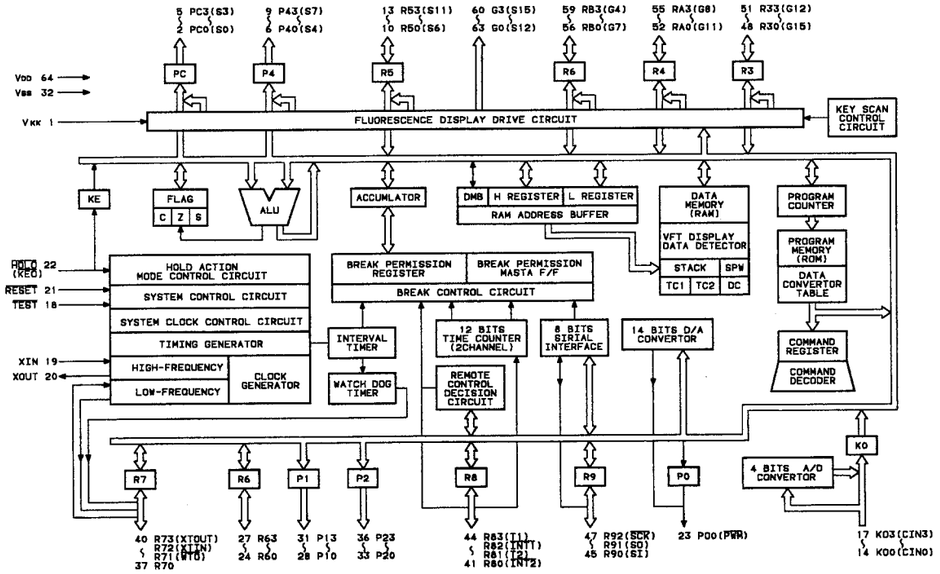
LA2500 BLOCK DIAGRAM



TC9214P BLOCK DIAGRAM

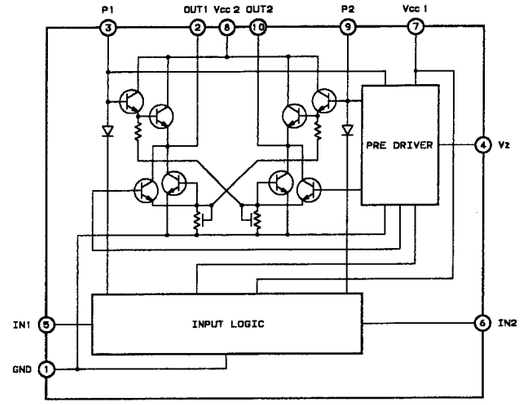


TMP47C670N-1265 BLOCK DIAGRAM

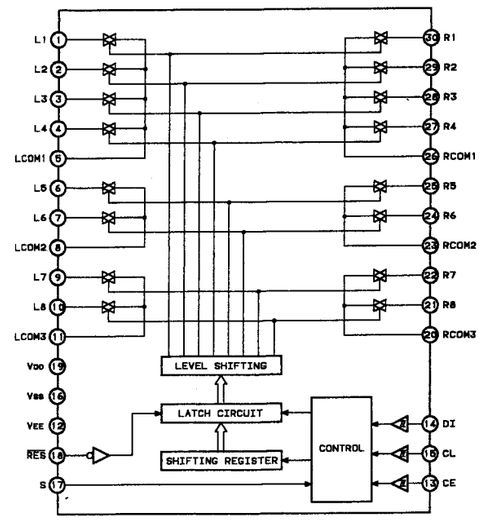


IC BLOCK DIAGRAM (Continued)

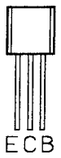
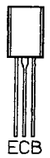
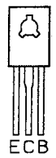
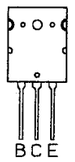
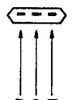
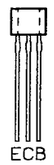
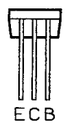
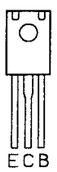
LB1641 BLOCK DIAGRAM



LC7821 BLOCK DIAGRAM

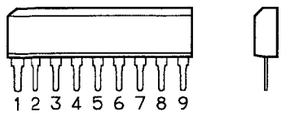


IC & TRANSISTOR LEAD IDENTIFICATION

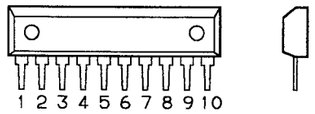
TRANSISTOR	FRONT VIEW	BOTTOM VIEW	TRANSISTOR	FRONT VIEW	BOTTOM VIEW
2SA608 2SC3331 2SC536 2SD734			2SB560 2SD438		
2SA1209 2SA1249 2SC2911 2SC3117			2SA1301 2SC3280		
2SD1012			2SC3066		
2SD1682					

TERMINAL NAME
B → BASE C → COLLECTOR E → EMITTER

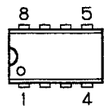
LA2500 FRONT/SIDE VIEWS



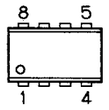
LB1641 FRONT/SIDE VIEWS



UPC4570C TOP VIEW

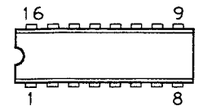


LA6458DS TOP VIEW

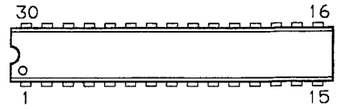


IC & TRANSISTOR LEAD IDENTIFICATION (Continued)

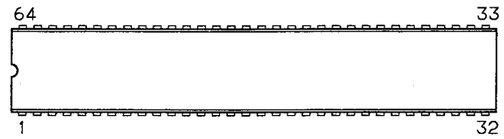
TC9214P TOP VIEW



LC7821 TOP VIEW



TMP47C670N-1265 TOP VIEW



Bezeichnung/Description
SERVICE MANUAL
Teile-Nr./Parts No.
WM570333
Menge/Quantity
1
Lagerort
33A04
LS-Nr.
720099 / 16
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